



# SOUTHWEST RESEARCH INSTITUTE®

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Institute Quality Systems  
Institute Calibration Laboratory  
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Calibration Laboratory  
Certificate #0972-01

## Certificate of Calibration

**Cost Center:** DIV20

**Mail Stop:** B51

**Customer:** DON BANNON

**Manufacturer/Model:** METTLER / PR5002

**Description:** BALANCE

**Serial Number:** 1122142733

**Asset Number:** 010225

**Procedure:** BALANCES & SCALES - 1 DEC 06

**Work Order:** 303087691

**Date Issued:** 8-May-2009

**Date Calibrated:** 8-May-2009

**\*Date Due :** 8-Nov-2009

**\*\*Results:** FOUND-LEFT

**Temperature:** 76°F

**Humidity:** 60 %

This certificate documents traceability to the National Institute of Standards and Technology (NIST) and the International System of Units (SI). The Laboratory quality system conforms to ISO/IEC 17025, 2005, ANSI/NCSL Z540-1-1994 and relevant requirements of the ISO 9000-2000 standard. This certificate shall not be reproduced, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. This certificate shall not be used to claim product endorsement by Southwest Research Institute, American Association for Laboratory Accreditation (A2LA) or any agency of the U. S. Government. Results of this calibration relate only to the instrument described above at the time of calibration and does not imply any long term stability of the instrument.


\*Determined by the customer, does not imply the instrument will remain within tolerance as any number of factors may cause an out-of-tolerance condition before this date. \*\*Found/Left = adjustment and/or repair was not required, As Left = adjusted and/or repaired was required. The customer has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance. See Remarks or attached Measurement Report with the same Work Order number for data.

Reported uncertainty calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM) and represents an expanded uncertainty with a coverage factor of k=2 to approximate a 95% confidence level.

### Remarks:

### Standards Used

<u>Asset #</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Description</u>	<u>Cal Date</u>	<u>Due Date</u>
001715	RICE LAKE	500G	WEIGHT, CLASS S	5-Aug-2008	5-Aug-2009
001716	RICE LAKE	1KG	WEIGHT, CLASS 1	11-Jun-2008	11-Jun-2009
001717	RICE LAKE	2KG	WEIGHT, CLASS 1	11-Jun-2008	11-Jun-2009
001718	RICE LAKE	2KG	WEIGHT, CLASS 1	11-Jun-2008	11-Jun-2009
001719	RICE LAKE	5KG	WEIGHT, CLASS 1	11-Jun-2008	11-Jun-2009

  
Reviewed By: ( ) srk ( ) mar (x) wgh

Laboratory Quality Manager

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Calibrated By: Carlos Mendoza

Metrology Technician

Southwest Research Institute  
Calibration Laboratory  
Measurement Report

Work Order:	303087691	Mfr:	Mettler	Technician:	com
Asset No:	010225	Model:	PR5002		
Serial No:	1122142733	Type:	Balance	Cal Date:	08-May-09
Remarks:					
Ambient Conditions                      76 °F                      60 % RH                      14.19 PSIA					

Function/Range	Applied	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Corner Load	grams	grams	grams	grams	grams	Result
Reference	2000.00					
Front	0.00	0.00	0.00	0.04		Pass
Rear	0.00	0.01	0.01	0.04		Pass
Left	0.00	0.01	0.01	0.04		Pass
Right	0.00	0.00	0.00	0.04		Pass
Repeatability						
1	2000.00	2000.02				
2	2000.00	2000.02				
3	2000.00	2000.02				
4	2000.00	2000.02				
5	2000.00	2000.02				
6	2000.00	2000.02				
7	2000.00	2000.02				
8	2000.00	2000.02				
9	2000.00	2000.03				
10	2000.00	2000.03				
Std Deviation		0.004		0.010		Pass
Linearity	0.00	0.00	0.00	0.04	0.019	Pass
	500.00	500.00	0.00	0.04	0.019	Pass
	1000.00	1000.02	0.02	0.04	0.019	Pass
	1500.00	1500.01	0.01	0.04	0.019	Pass
	2000.00	2000.02	0.02	0.04	0.019	Pass
	2500.00	2500.02	0.02	0.04	0.019	Pass
	3000.00	3000.02	0.02	0.04	0.019	Pass
	3500.00	3500.02	0.02	0.04	0.019	Pass
	4000.00	4000.04	0.04	0.04	0.019	Pass
	4500.00	4500.04	0.04	0.04	0.019	Pass
	5000.00	5000.03	0.03	0.04	0.019	Pass

End of Report